

Lower Putah Creek Community Watershed Management



Watershed Plan

Science-based and Community Supported

Lower Putah Creek Watershed Management Action Plan Phase I – Resource Assessments



Text and Appendices

Prepared for:
Lower Putah Creek Coordinating Committee

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Putah Creek Streamkeeper

December 2005



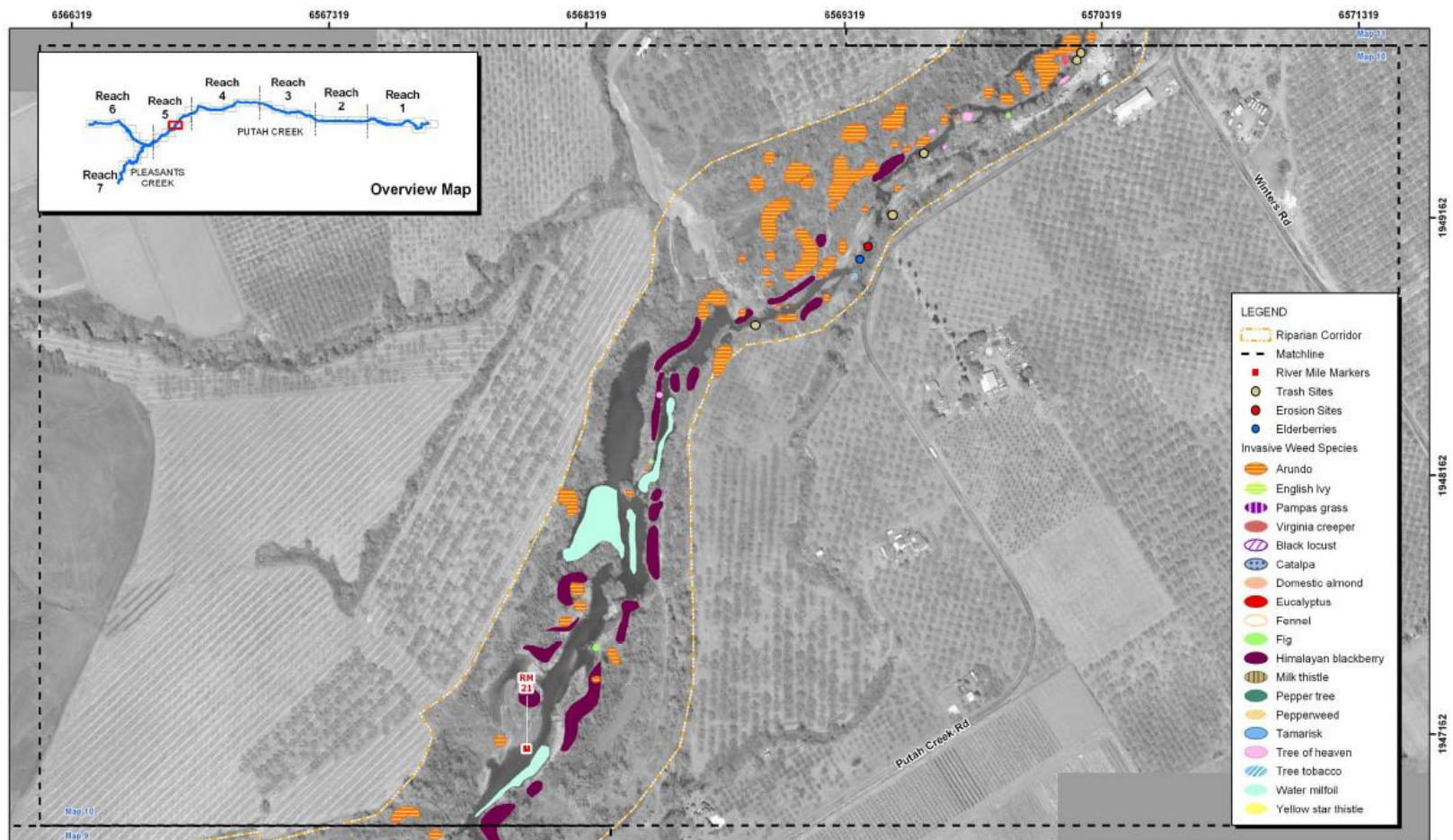
Lower Putah Creek Watershed Management Action Plan Proposed Projects



January 2008



Watershed Scale Assessment

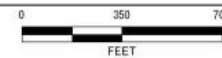


Sources: Image America, March 2001; EDAW 2002
 Coordinate System: California State Plane, region 2, NAD 83 (feet)

Resource Assessment

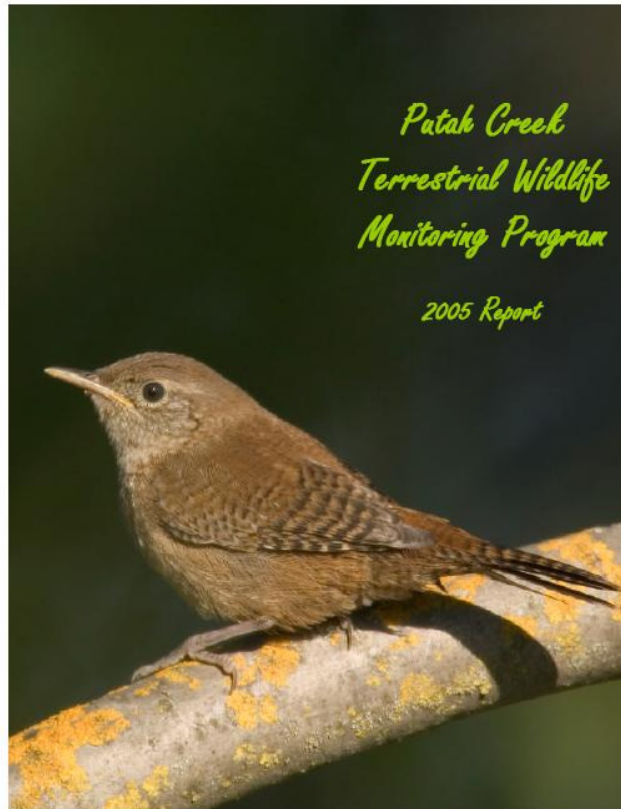
Lower Putah Creek Watershed Management Action Plan

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MAP EXHIBIT R10
 EDAW
 NORTH

Wildlife Monitoring

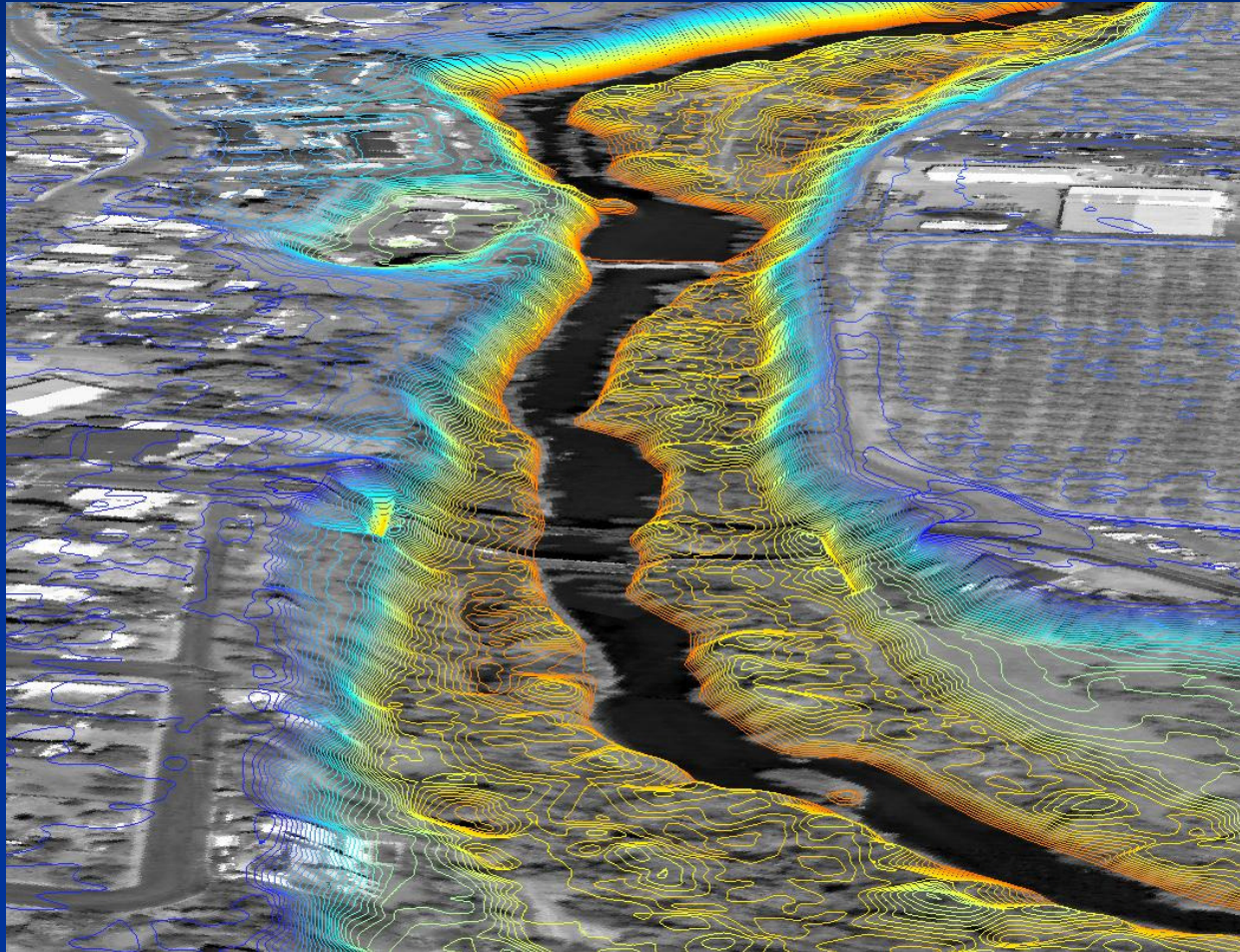


Bird Counts by River Mile

Putah Creek Riparian Bird and Wildlife Monitoring Program 2005 Summary Progress Report

SPECIES	CREEK LIST	7	8	9	10	11	12	13	14	15	16
Yellow-headed Blackbird	4										
Brewer's Blackbird	21	PR	OB	CO	OB	CO		PO	PO	OB	
Brown-headed Cowbird	22	PR	PR	PR	PR	PR		PR	PR		
Hooded Oriole	6			OB	OB						
Bullock's Oriole	20	CO	OB	OB	CO	PR		PO	PR		
FRINGILLIDAE											
Purple Finch	13	OB	OB	OB	OB	OB		OB	OB	OB	
House Finch	26	CO	PO	OB	PR	CO	OB	PR	PR	OB	PO
Pine Siskin	9	OB			OB				OB		
Lesser Goldfinch	21	PO	PO	OB	PR	PR	OB	PO	PR	OB	
American Goldfinch	25	PO	PO	OB	CO	PO	OB	PO	PO	OB	OB
Lawrence's Goldfinch	7				OB						
PASSERIDAE											
House Sparrow	12	CO	CO			CO		PR		OB	
TOTAL OB		86	64	60	75	61	21	33	65	32	21
TOTAL PO		13	15	15	13	8	6	15	14	2	14
TOTAL PR		14	11	19	19	16	1	12	21	4	11
TOTAL CO		21	10	8	29	23	4	12	14	0	7
GRAND SPP TOTAL	199	134	100	102	136	108	32	72	114	38	53

LiDAR Elevation Model



Community Participation



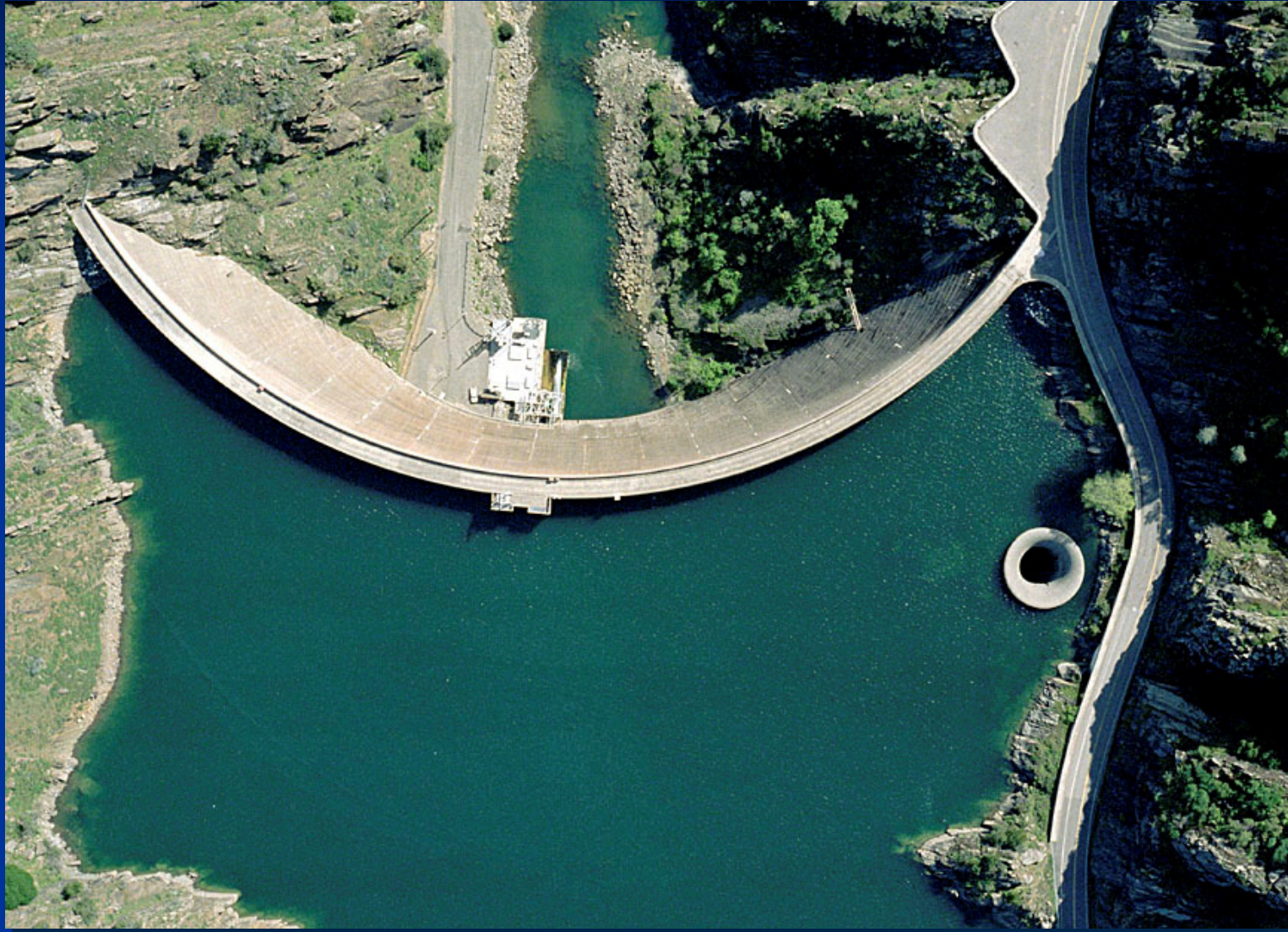
Priority Project List

Proposed Action Plan Projects												
Project by Property Owner	Project Types					Selection Criteria						Notes
	Channel Restoration	Bank Stabilization	Habitat Enhancement	Invasive Plant Removal	Trash Clean-up	Existing Agreement (Cooperation & Commitment)	On-site Materials	Multiple Funding Sources	Contiguous with Other Projects	Public Education and Visibility	Upstream Location	
TIER ONE PROJECTS	Winters Putah Creek Park	•	•	•	•	•	•	•	•	•	•	1 mile reach from Winters Car Bridge to Hwy 505
	Carl Ramos	•	•	•	•	•	•	•	•	•	•	Dry Creek confluence
	Ken Bertinoia	•	•	•	•	•	•	•	•	•	•	Dry Creek confluence
	Herb Wimmer		•	•	•	•	•	•	•		•	Winters Oxbow
	Tony Morales		•	•	•	•	•	•	•		•	Below Putah Diversion Dam
	Dennis Kilkenny	•		•	•	•	•	•	•	•		Putah Creek Road east of Hwy 505
	Craig McNamara	•		•	•	•	•	•	•	•		Largest parcel on Putah Creek
	Yolo Housing	•	•	•	•	•	•	•		•		Low income housing-CALFED Prop 13
	UC Davis Russell Ranch	•		•	•	•	•	•	•	•		Above Stevenson's Bridge
	UC Davis Campus	•		•	•	•	•	•	•	•		Pedrick Road to Old Davis Road
	City of Davis	•		•	•	•	•	•	•	•		Below Mace Blvd.
	Solano County 505	•	•	•	•	•	•	•	•	•		South Bank Hwy 505 and east
	Ethel Hoskins		•		•	•	•	•		•	•	First arundo control and bank stabilization project
	Don Jordan			•	•	•	•	•				Above Stevenson's Bridge
	John Neil	•		•	•	•	•	•	•	•	•	27 acres above Winters Car Bridge
	Glide Ranch	•		•	•	•	•	•	•			2.5 miles north bank creek frontage
	John Hasbrook	•		•	•	•	•	•	•			Original Rock Weir
	John Pickerel			•	•	•			•	•	•	Below Putah Diversion Dam
	John Vickrey	•	•		•	•		•	•			Riparian restoration after fire

Committed Action



Understanding the Watershed



Why Are Tributaries Eroding?



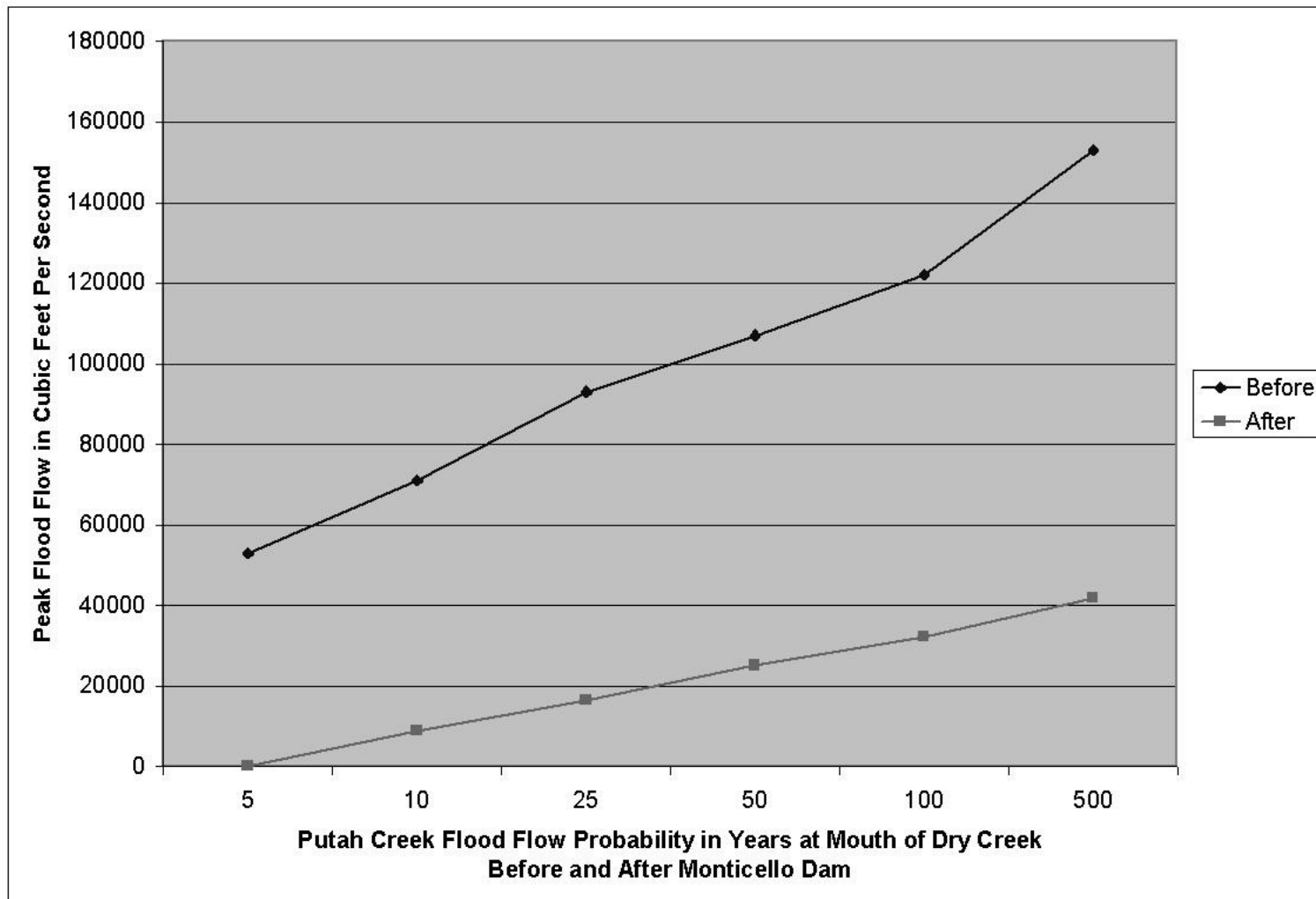
Pleasants
Creek



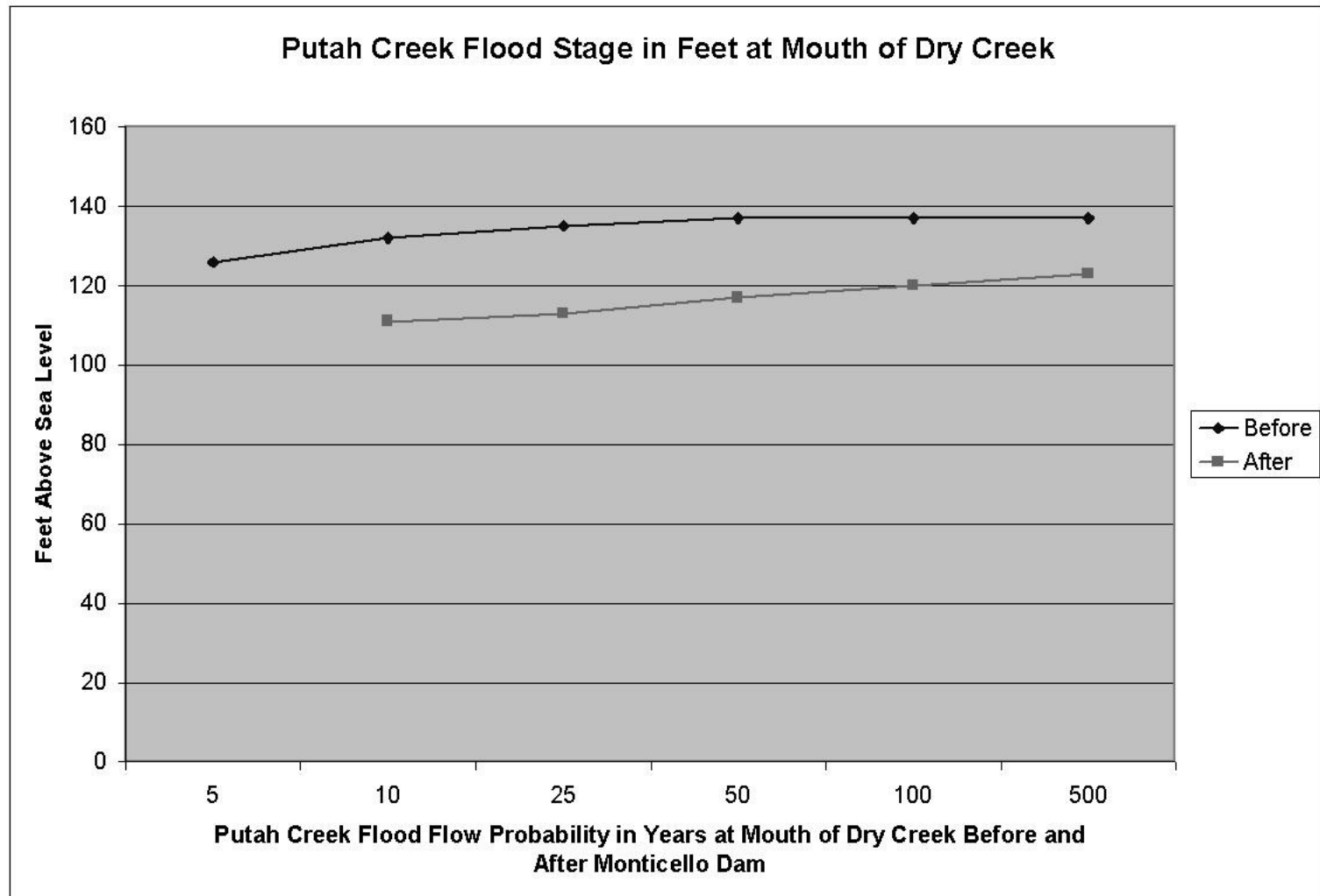
Dry
Creek



Effect of Monticello Dam on Peak Flood Flows



Effect of Monticello Dam on Peak Flood Stage



Enlarging Tributary Channels



Bridge Failure



Turbidity



June 2005



January 2006



Hoskins Ranch 2001



Hoskins Ranch 2005



Rock Vanes



Dry Creek



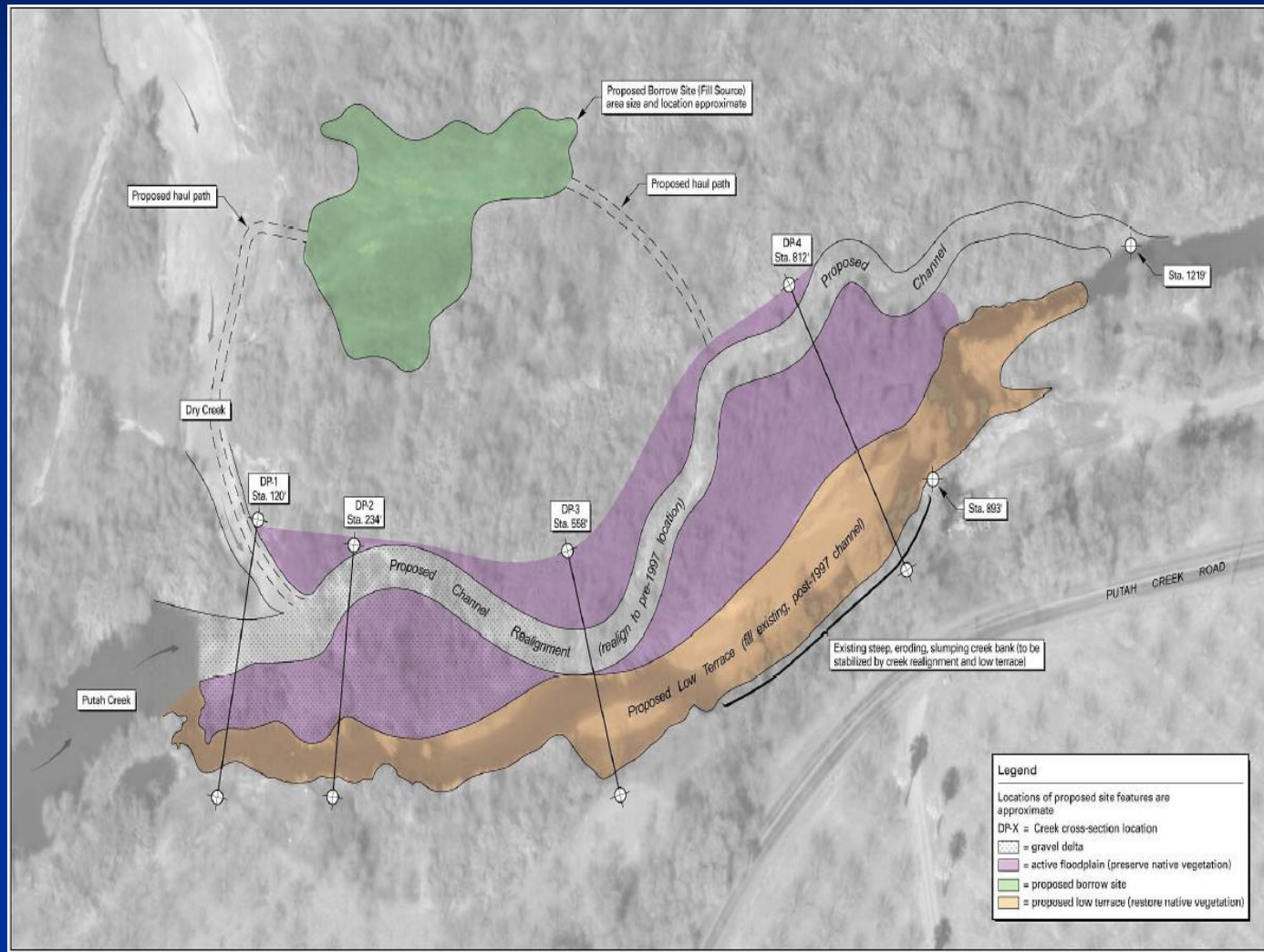
Cut Arundo at Dry Creek



Arundo Induced Erosion



Restoring Dry Creek Confluence



Design Channel



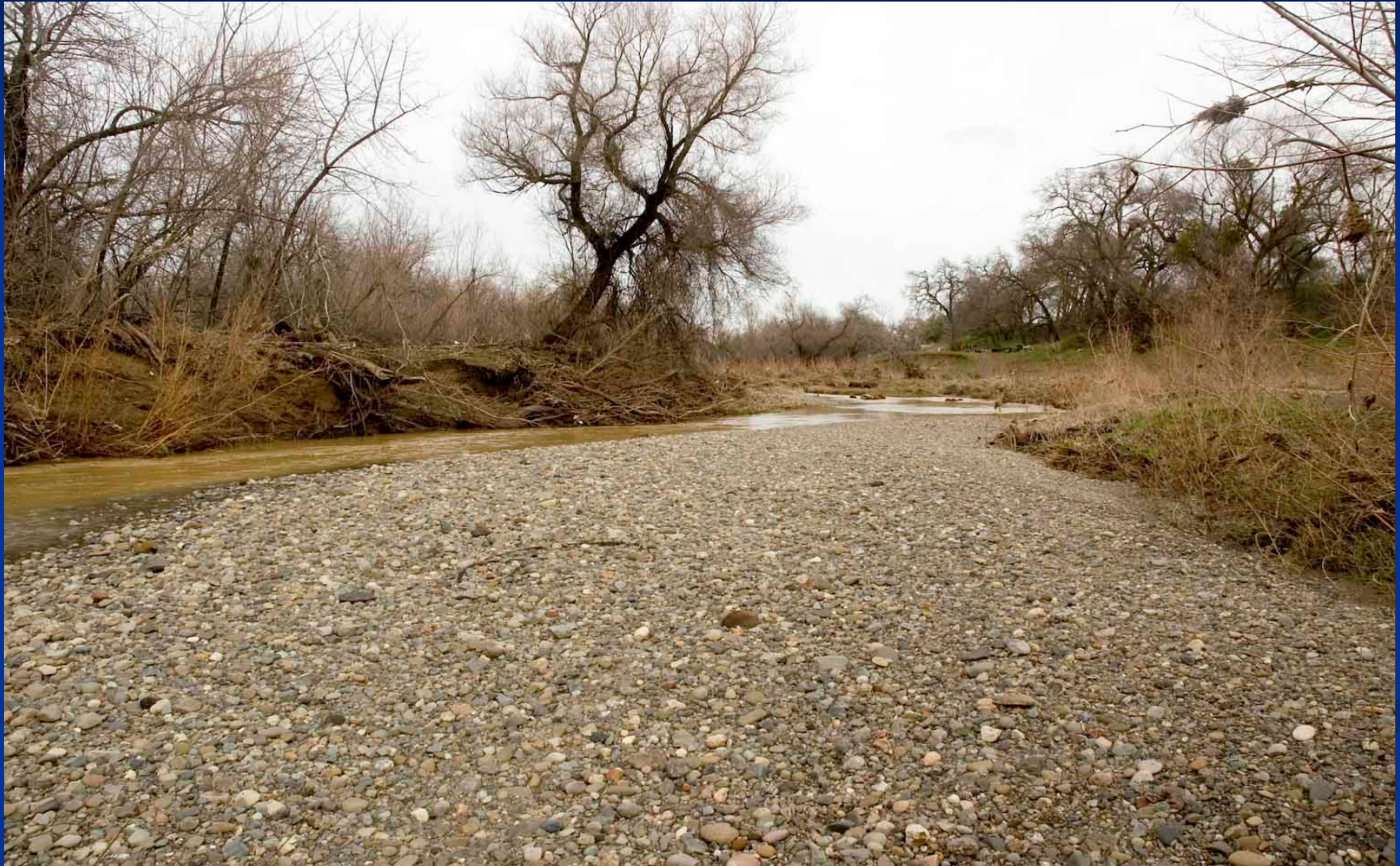
Restored Bank



After 12,500 CFS Runoff Event



Gravel Recharge 2008



Winters Putah Creek Park



WPCP 1962



Winters Putah Creek Park Conceptual Restoration Plan



Success Criteria

- Near Term (1-5 years)
 - Eliminate Blight
 - Eliminate Invasive Weeds
 - Increase Aquatic Invertebrates
- Mid Term (3-7 years)
 - Lower Water Temperature
 - Reduce Turbidity
 - Increase Salmon Population
- Long Term (7-10 years)
 - Increase Native Fish and Wildlife

Conclusions

- 1) Communities manage watersheds
- 2) Community involvement, watershed scale assessment and consensus planning generates commitment to science-based and community-supported action.

<http://www.watershedportals.org/lpccc>